ATTACHMENT 1

CORRESPONDENCE CONCERNING CFA-609

EG&G Idaho

"Providing research and development services to the government"

INTEROFFICE CORRESPONDENCE

Date: July 21, 1993

To: Bill Pigott, MS 3952

From: Shannon Ansley, MS 2107 SLA

Subject: MEMO OF CONVERSATION CONCERNING UNDERGROUND STORAGE TANK CFA-609 - SLA-04-93

During preparation of the Track 1 for underground storage tank CFA-609, I had several phone conversations with people who were familiar with the history of this tank. The purpose of this letter is to document those conversations.

7/13/93 - **Gene Barry, MSE**, Mr. Barry stated that MSE did not do a tank removal summary for CFA-609, as they had for many other tanks at CFA.

7/13/93 - **Dusty Rhoades, EG&G**, Mr. Rhoades stated that he no longer works on the tank removal program and has no memory of the removal of tank CFA-609. In the tank file, a letter authored by him is referenced but not included. Supposedly, that letter states that CFA-609 was removed. No other information was given. Mr. Rhoades has no memory of this letter and it is no longer in his letter files. He thinks that building CFA-609, which was associated with this tank, was an old building and no longer exists.

7/13/93 - **Doug Wood, EG&G**, He thought the tank might have been removed previously (i.e., prior to his tenure at CFA). He stated that no tanks were pulled while he was at CFA, but that this one may have been removed an undetermined number of years ago.

7/13/93 - **Mike Baxter, EG&G**, He stated that he did not remember this tank being removed. He informed me that there was an old CFA-609 building which was razed and replaced by CFA-614. The new CFA-609 was the security building and all of the tanks associated with that building are larger than 500 gals.

7/13/93 - **Roseann Huntley, EG&G**, She stated that the tank was located at the old CFA-609 building and that she thought the tank was left in place and CFA-614 constructed over it.

7/13/93 - **Mike Atwood, PTI**, He confirmed that the tanks associated with the current CFA-609 are 12,000 gals and 5000 gals and no other smaller tanks exist there.

7/20/93 - **Fred Olson, EG&G**, Mr. Olson stated that he was the backhoe operator during demolition of the old CFA-609 building sometime around 1985-1986 (or in the same year that CFA-612 was constructed). He also stated that buried tanks at CFA-609 and CFA-610 were dug up by him and transported to the old part (eastern-most trenches) of CFA Landfill III for disposal. He thought the tank sizes were somewhere between 250 and 500 gal size. He did not remember the condition of the tanks upon excavation or if they still contained product. He also stated that the tanks were plumbed with 2-in. lines that were not excavated and probably still in place. The tanks were also attached to a common pipe coming from 10,000-gal. above-ground tanks formerly sited at CFA-601.

Several other people have been contacted for information but have not yet responded to my requests.

If you have any questions, please call me.

vek

cc: W. E. Harrison, MS 2110
T. R. Wood, MS 2107 TRW
Central Files, MS 1651
AG Project Files
S. L. Ansley Letter Files

ATTACHMENT 2

ESTIMATION OF VOLUME OF CONTAMINATED SOIL FROM A FUEL OIL SPILL

ρ = soil porosity

RS = residual saturation from Table 1

The estimated volume in cubic yards contaminated by a light oil or gasoline spill is given by:

$$V_s = \frac{0.2 \times N/44}{0.35 \times 0.10}$$

The estimated volume in cubic yards contaminated by a diesel or light fuel oil spill is given by:

$$V_s = \frac{0.2 \times N/44}{0.35 \times 0.15}$$

The estimated volume in cubic yards contaminated by a lube or heavy fuel oil spill is given by:

$$V_s = \frac{0.2 \times N/44}{0.35 \times 0.20}$$

Calculate a volume:

N = 275 gallons

RS = 0.15 (from Table 1)

Therefore:

$$V_s = \frac{0.2 \times 275 / 44}{0.35 \times 0.15} = 23.8$$ cubic yards of contaminated soil

References:

Case, M. J., Maheras, S. J. et al., Radioactive Waste Management Complex Performance Assessment. EG&G Idaho Informal Report, EGG-WM-8773, June, 1990, Page A-62

Dragun, James, Soil Chemistry of Hazardous Materials. Hazardous Materials Control Research Institute, Chapter 2, 1988.